Test Type: 14-DAY

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED) **Test Compound:** 2-Methylimidazole

CAS Number: 693-98-1

Date Report Requested: 10/15/2014

Time Report Requested: 12:51:06

First Dose M/F: NA / NA

Lab: MBA

Route: DOSED FEED Species/Strain: Rat/F 344/N

C Number: C92012

Lock Date: 08/31/1994

Cage Range: ΑII

Date Range: ΑII

Reasons For Removal: ΑII

Removal Date Range: ΑII

Treatment Groups: ΑII

Study Gender: Both

PWG Approval Date NONE

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole
CAS Number: 693-98-1

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Route: DOSED FEED

Time Report Requested: 12:51:06

First Dose M/F: NA / NA

Date Report Requested: 10/15/2014

Lab: MBA

F 344/N Rat Male VEHICLE CONTROL	DAY ON TEST ANIMAL ID	0 0 1 5 0 0 0 0 0	0 0 1 5 0 0 0 0 0	0 0 1 5 0 0 0 0 0 3	0 0 1 5 0 0 0 0 0 4	0 0 1 5 0 0 0 0 0 5	*TOTALS
Alimentary System							
Liver		+	+	+	+	+	5
Stomach, Forestomach		+	+	+	+	+	5
Stomach, Glandular Cardiovascular System		+	+	+	+	+	5
Heart Endocrine System		+	+	+	+	+	5
Adrenal Cortex		+	+	+	+	+	5
Adrenal Medulla		+	+	+	+	+	5
Pituitary Gland		+	+	+	+	+	5
Thyroid Gland General Body System		+	+	+	+	+	5
NONE Genital System							
Testes Hematopoietic System		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus Integumentary System		+	+	+	+	+	5

M ..Missing tissue

A .. Autolysis precludes evaluation

 $^{^{\}star}\,$..Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole

Route: DOSED FEED CAS Number: 693-98-1

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

nber: 693-98-1 First Dose M/F: NA / NA Lab: MBA

Date Report Requested: 10/15/2014

Time Report Requested: 12:51:06

F 344/N Rat Male VEHICLE CONTROL	DAY ON TEST ANIMAL ID	0 0 1 5 0 0 0 0 0	0 0 1 5 0 0 0 0 0	0 0 1 5 0 0 0 0 0 3	0 0 1 5 0 0 0 0 4	0 0 1 5 0 0 0 0 0 5	*TOTALS
NONE Musculoskeletal System							
NONE Nervous System							
Brain Respiratory System		+	+	+	+	+	5
Lung Special Senses System		+	+	+	+	+	5
NONE Urinary System							
Kidney SYSTEMIC LESIONS		+	+	+	+	+	5

Multiple Organ

M ..Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

5

 $^{^{\}star}\,$.. Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Route: DOSED FEED

CAS Number: 693-98-1

Time Report Requested: 12:51:06

Date Report Requested: 10/15/2014

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male	DAY ON TEST	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	
1200 PPM		5	5	5	5	5	
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	1	
		6	7	8	9	0	*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

Pituitary Gland Thyroid Gland

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

5

5

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole

Test Type: 14-DAY **Route:** DOSED FEED

Species/Strain: Rat/F 344/N

CAS Number: 693-98-1

Date Report Requested: 10/15/2014 Time Report Requested: 12:51:06

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male 1200 PPM

DAY ON TEST	0	0	0	0	0
	1 5	1 5	1 5	1 5	1 5
ANIMAL ID	0	0	0	0	0
AMIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	1
	6	7	8	9	0

*TOTALS

5

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ + + + + +

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

5

5

Test Compound: 2-Methylimidazole
CAS Number: 693-98-1

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Route: DOSED FEED

Date Report Requested: 10/15/2014 Time Report Requested: 12:51:06

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male	DAY ON TEST	0 0 1 5	0 0 1 5	0 0 1 5	0 0 1 5	0 0 1 5	
3300 PPM	ANIMAL ID	0 0 0 1 1	0 0 0 1 2	0 0 0 1 3	0 0 0 1 4	00015	*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

Pituitary Gland + + + + + +

Thyroid Gland + + + + +

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

 $^{^{\}star}\,$.. Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole

Test Type: 14-DAY **Route:** DOSED FEED

CAS Number: 693-98-1

Time Report Requested: 12:51:06

Date Report Requested: 10/15/2014

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male

3300 PPM

Species/Strain: Rat/F 344/N

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	5	5	5	5	5
A NIIMAA IID	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	1	2	3	4	5

*TOTALS

5

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ + + + + +

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole **CAS Number:** 693-98-1

5 5

Route: DOSED FEED Species/Strain: Rat/F 344/N First Dose M/F: NA / NA Lab: MBA

Date Report Requested: 10/15/2014

Time Report Requested: 12:51:06

F 344/N	N Rat Male
10000	PPM

Test Type: 14-DAY

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	1 5	1 5	
ANIMAL ID	0	0	0	0	0	
AMINALID	0	0	0	0	0	
	0	0	0	0	0 2	
	1	1	1	1		*TOTALS
	6	7	8	9	0	*TOTALS
	+	+	+	+	+	5
	+	+	+	+	+	5
	+	+	+	+	+	5

Stomach, Forestomach Stomach, Glandular

Cardiovascular System

Heart 5

Endocrine System

Alimentary System

Liver

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

5 Testes **Hematopoietic System**

Spleen 5 Thymus 5

Integumentary System

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole

CAS Number: 693-98-1 Route: DOSED FEED

First Dose M/F: NA / NA

Date Report Requested: 10/15/2014

Time Report Requested: 12:51:06

Lab: MBA

F 344/N Rat Male 10000 PPM

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
ANIIMAL ID	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	2	
	6	7	8	9	0	

*TOTALS

5

5

NONE

Musculoskeletal System

NONE

Nervous System

Brain **Respiratory System**

5 Lung

Special Senses System

NONE

Urinary System

Kidney

SYSTEMIC LESIONS

Multiple Organ

END OF MALE DATA

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole **CAS Number:** 693-98-1

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Route: DOSED FEED

First Dose M/F: NA / NA

Date Report Requested: 10/15/2014

Time Report Requested: 12:51:06

Lab: MBA

F 344/N Rat Female VEHICLE CONTROL	DAY ON TEST	0 0 1 5	0 0 1 5	0 0 1 5	0 0 1 5	0 0 1 5	
	ANIMAL ID	0 0 0 2 1	0 0 0 2 2	0 0 0 2 3	0 0 0 2 4	0 0 0 2 5	*TOTALS
Alimentary System							
Liver		+	+	+	+	+	5
Stomach, Forestomach		+	+	+	+	+	5
Stomach, Glandular		+	+	+	+	+	5
Cardiovascular System							
Heart		+	+	+	+	+	5
Endocrine System							
Adrenal Cortex		+	+	+	+	+	5
Adrenal Medulla		+	+	+	+	+	5
Pituitary Gland		+	+	+	+	+	5
Thyroid Gland		+	+	+	+	+	5
General Body System							
NONE							
Genital System							
Ovary		+	+	+	+	+	5
Hematopoietic System							
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
Integumentary System							

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole
CAS Number: 693-98-1

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Route: DOSED FEED

Date Report Requested: 10/15/2014 Time Report Requested: 12:51:06

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female VEHICLE CONTROL	DAY ON TEST	0 0 1 5 0 0 0 0 2	0 0 1 5 0 0 0 2 2	0 0 1 5 0 0 0 2 3	0 0 1 5 0 0 0 2 4	0 0 1 5 0 0 0 2 5	*TOTALS
NONE Musculoskeletal System							
NONE Nervous System							
Brain Respiratory System		+	+	+	+	+	5
Lung Special Senses System		+	+	+	+	+	5
NONE Urinary System							
Kidney SYSTEMIC LESIONS		+	+	+	+	+	5
Multiple Organ		+	+	+	+	+	5

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

D

Test Type: 14-DAY

Route: DOSED FEED Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/15/2014
Time Report Requested: 12:51:06

First Dose M/F: NA / NA

Lab: MBA

Test Compound: 2-Methylimidazole
CAS Number: 693-98-1

F 344/N Rat Female 1200 PPM

AY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
ANIMAL ID	5	5	5	5	5
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0 2 6	0 2	2 8	0 2 9	3
	6	7	8	9	0

*TOTALS

5 5

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

Pituitary Gland	+	+	+	+	+
Thyroid Gland	+	+	+	+	+

General Body System

NONE

Genital System

Ovary + 1

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

D

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole **CAS Number:** 693-98-1

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Route: DOSED FEED

Date Report Requested: 10/15/2014 Time Report Requested: 12:51:06

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female 1200 PPM

AY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
ANIMAL ID	<i>1</i> 5	5	5	5	5
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0 2 6	0 2	2 8	0 2 9	3
	6	7	8	9	0

*TOTALS

5

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ + + + + +

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole
CAS Number: 693-98-1

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Route: DOSED FEED

Date Report Requested: 10/15/2014 **Time Report Requested:** 12:51:06

First Dose M/F: NA / NA

Lab: MBA

F 344/N	N Rat Female	
3300	PPM	

DAY ON TEST	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1
ANIMAL ID	0	0	<u> </u>	<u> </u>	0
	Ö	Ö	Ö	Ö	ő
	0	0	0	0	0
	3	3	3	3	3
	1	2	3	4	5

*TOTALS

5

5

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

Pituitary Gland + + + + + +

Thyroid Gland + + + + +

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

X .. Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

 $^{^{\}star}\,$.. Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole

Route: DOSED FEED Species/Strain: Rat/F 344/N

Test Type: 14-DAY

CAS Number: 693-98-1

Time Report Requested: 12:51:06

Date Report Requested: 10/15/2014

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female 3300 PPM

DAY ON TEST	0	0	0	0	0
	<i>1</i> 5				
ANIMAL ID	0	0	0	0	0
	3	3	3	3	3
	1	2	3	4	5

*TOTALS

5

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ + + + + +

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole **CAS Number:** 693-98-1

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Route: DOSED FEED

Time Report Requested: 12:51:06

First Dose M/F: NA / NA

Date Report Requested: 10/15/2014

Lab: MBA

F 344/N Rat Female 10000 PPM	DAY ON TEST ANIMAL ID	0 0 1 5 0 0 0 0 3 6	0 0 1 5 0 0 0 3 7	0 0 1 5 0 0 0 3 8	0 0 1 5 0 0 0 3 9	0 0 1 5 0 0 0 4 0	*TOTALS
Alimentary System							
Liver		+	+	+	+	+	5
Stomach, Forestomach		+	+	+	+	+	5
Stomach, Glandular Cardiovascular System		+	+	+	+	+	5
Heart Endocrine System		+	+	+	+	+	5
Adrenal Cortex		+	+	+	+	+	5
Adrenal Medulla		+	+	+	+	+	5
Pituitary Gland		+	+	+	+	+	5
Thyroid Gland General Body System		+	+	+	+	+	5
NONE Genital System							
Ovary Hematopoietic System		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
Integumentary System							

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 2-Methylimidazole

Species/Strain: Rat/F 344/N

Test Type: 14-DAY

Route: DOSED FEED

CAS Number: 693-98-1

Date Report Requested: 10/15/2014 Time Report Requested: 12:51:06

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female 10000 PPM	DAY ON TEST	0 0 1 5	0 0 1 5	0 0 1 5	0 0 1 5	0 0 1 5	
10000 PPM	ANIMAL ID	0 0 0 3 6	0 0 0 3 7	0 0 0 3 8	0 0 0 3 9	0 0 0 4 0	*TOTALS_
NONE							
Musculoskeletal System							

NONE

Nervous System

Special Senses System

NONE

Urinary System

Kidney + + + + +

SYSTEMIC LESIONS

Multiple Organ + + + + + 5

** END OF REPORT **

5

5

5

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue